

Title (en)

METHOD AND APPARATUS FOR THE DETERMINATION OF SPECIES IN SOLUTION WITH AN OPTICAL WAVE-GUIDE

Publication

**EP 0075353 B1 19870819 (EN)**

Application

**EP 82201107 A 19820908**

Priority

EP 81810385 A 19810918

Abstract (en)

[origin: WO8301112A1] An analyte in solution is made to react with a specific reactant coated on the wave-guide thus modifying the optical properties thereof. The index of refraction of the wave-guide material is higher than that of the reaction medium which ensures that a light signal injected into said guide be carried by multiple total reflection, the distance of penetration of the evanescent wave associated with the totally reflected signal being of the same order of magnitude or greater than the thickness of the analyte-reactant product layer.

IPC 1-7

**G01N 21/75**; **G01N 33/53**

IPC 8 full level

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CPC (source: EP US)

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EP1441217A3; EP0211587A3; EP0239382A3; US4826313A; EP0254430A3; EP0292207A3; EP0103426A3; US4447546A; GB2174802A; GB2174802B; US4857273A; US5952035A; US5854863A; DE4307042A1; BE1000572A4; EP0178083A1; EP0184600A1; EP0128723A3; EP0353937A1; GB2180338A; GB2180338B; EP0127438A1; US5994091A; EP0245206A1; EP0170376A1; US4810658A; EP0422708A3; AU581669B2; EP1441217A2; US7138268B2; US10359573B2; US11016100B2; US9778267B2; WO9609532A1; WO8601901A1; WO03083454A1; WO8909408A1; WO9732212A1; WO9001166A1; WO8400817A1; WO9325892A1; WO8706956A1; WO8600135A1

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